



# CAT6 UTP 4 PAIR LSZH CABLE

## Technical Information



### Features: A four pair unshielded twisted pair (UTP) cable. Compliant with the latest specifications

- ◆ Easy pull box prevents snagging
- ◆ Low memory
- ◆ Metre marked from 305m to 0m
- ◆ Cat6 ISO11801 Class E or EN50173 Class E
- ◆ 24AWG solid conductors
- ◆ LSZH Violet sheath
- ◆ Boxed 305m reel
- ◆ 25 year Ultima System Warranty compliant

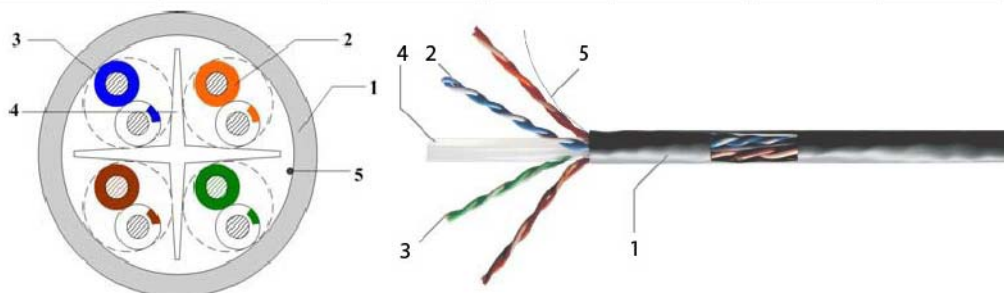
### Physical Characteristics

Construction	Pairs	AWG	Conductor Dimension	Conductor Material
U/UTP	4 Pair	24 AWG	0.545 +/- 0.02mm	Solid bare copper
Insulation material	Outer jacket material	Insulation Dimension	Outer jacket thickness	Overall Diameter
HDPE	LSZH	0.96 +/- 0.05mm	0.5mm	5.9 +/- 0.3mm
Operating Temperature	Bulk cable weight	Min. Bend Radius	Max. pulling tension	Jacket tensile strength
-20 °C ~ +75°C	39.0Kg/km	47.2mm	80 N	>= 9 Mpa

### Electrical Characteristics

Nom. mutual capacitance	Max. capacitance unbalance	Nominal velocity of propagation	Max. delay skew
<=5.6 nF/100m (@1KHz)	<=330 pF/100m	65%	45 ns/100m
Max. conductor DC resistance	Min. insulation resistance	Max. conductor resistance unbalance	Max. operating voltage - UL
93.8 Ω/km (@ 20 °C)	5000 MΩ.km	<=5% (@ 20 °C)	300 V

Frequency (MHz)	upper characteris- tic impedance Zu(Ω)	Lower character- istic impedance Zl(Ω)	RL (dB)	ATT (dB/100m)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	PD (ns/100m)
1	-	-	20.0	2.0	74.3	72.3	67.8	64.8	570.0
4	115.2	86.8	23.0	3.8	65.3	63.3	55.8	52.8	552.0
8	112.6	88.8	24.5	5.3	60.8	58.8	49.7	46.7	546.7
10	111.9	89.4	25.0	6.0	59.3	57.3	47.8	44.8	545.4
16	111.9	89.4	25.0	7.6	56.2	54.2	43.7	40.7	543.0
20	111.9	89.4	25.0	8.5	54.8	52.8	41.8	38.8	542.0
25	112.9	88.5	24.3	9.5	53.3	51.3	39.8	36.8	541.0
31.25	114.1	87.7	23.6	10.7	51.9	49.9	37.9	34.9	540.0
62.5	118.3	84.5	21.5	15.4	47.4	45.4	31.9	28.9	538.6
100	121.9	82.0	20.1	19.8	44.3	42.3	27.8	24.8	537.6
200	128.8	77.6	18.0	29.0	39.8	37.8	21.8	18.8	536.5
250	131.5	76.0	17.3	32.8	38.3	36.3	19.8	16.8	536.3



- 1 Outer Jacket
- 2 Insulation
- 3 Conductor
- 4 Filler
- 5 Rip Cord

Item	Description	Category	Type	NVP Rating	Sheath	Length	Colour
778134	Solid	Cat6	UTP	65%	LSZH	305Mtr	Violet

**Intertek**



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Cortland, New York 13045 USA  
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**Intertek**

**ETL Verified Certificate of Conformance Number: 101196003CRT-001a**

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out.

**Applicant:**

Comtec Cable Accessories Ltd  
Cardinal distribution Park  
Godmanchester PE292XJ  
United Kingdom

Contact: Mr. Dan Conway

**Manufacturer:**

Comtec Cable Accessories Ltd  
Cardinal distribution Park  
Godmanchester PE292XJ  
United Kingdom

Contact: Mr. Dan Conway

**Verification/Report Number:** 100713863CRT-002b, 100713863CRT-003d and 100713863CRT-004d

**Product Tested:** 4 pair, 24 AWG, UTP, LSZH, Non-Plenum, Horizontal (solid) Cable.

**Model(s) and or Brand Name:** ULTIMA 778134

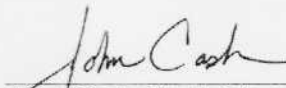
**Standard(s)/Specification:** ANSI/TIA-568-B.2-1, ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Category 6 with the applicable electrical transmission characteristics

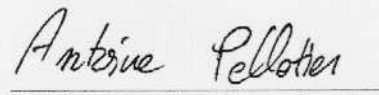
**Jacket marking shall include:** ETL Verified to ANSI/TIA-568-B.2-1, ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Category 6.

Continuing compliance to this specification is monitored through production testing, quarterly inspections by Intertek at the production facility and random sample testing.

**Date Verified:** 5/21/2013

**Approved By:**

  
John Cash, Technician

  
Antoine Pelletier, Team Leader

**This verification supersedes all previous verifications with the noted Verification/Report number(s) dated before this verification notice.**

**NOTE: This verification is part of the full test report(s) and should be read in conjunction with it.**

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